Introduction

Darfur Community Peace and Stability Fund (DCPSF) was set up to address community level conflicts peace-building activities and foster social cohesion by drawing diverse communities together through processes of dialogue and consultations and address root causes of conflict through various activities that provide dividends of peace in Darfur.

DCPSF Phase 2, which covers from 2011 to 2015, continues with the same goal to stabilize communities and restore trust and confidence between communities paving the way towards early recovery.

DCPSF has in the past two years carried out Darfur wide conflict analysis workshops and draw from different actors in Darfur, the hotspots, issues of conflict and actors of conflict from which DCPSF is able to prioritize thematic issues to be addressed.

Following are the key topics that investigate displacement via conflict analysis carried out in 2013 with a lens of community level conflicts and their actors.

- 1. Conflict Hotspot Localities in Darfur
- 2. Root Structural Causes of Conflict3. Hidden Causes of Conflict
- 4. Conflict Resolution Remedies



UNAMID

Main Hypotheses

1. Former conflicts is manifested in economic marginalization, governance and political representation and unequal distribution of services in Darfur compared to the rest of Sudan

Other Hypotheses/

- 1. Tribal Tension
- 2. Local Power Relations
- 3. Land Ownership
- 4. Ethnic Tension

Description of Data

- Data obtained from primary and secondary sources and integrated into one dataset of 1200 observations.
- Primary data were collected via dispatching specialized ethnolinguistic teams to carry out pre-authorized interviews, surveys, and questionnaires in localities of Darfur.
- Secondary Data was collected from different regional indexes such as Arab Democracy Barometer Wave 3, and Sudan Official Statistics of Darfur destroyed villages.

Data Challenges

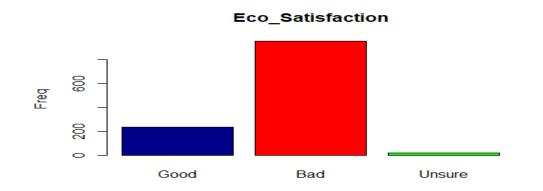
- No Interviews were possible to be conducted at that time to investigate reasons of violence of committers
- Missing values have been replaced either by the medians or by a global constant "Unknown", and in some cases, mice computation code in R.
- Data collection processes had major delays and technical issues due to security concerns and instability
- High quality data integration requires combining data from multiple coherent and trust-worthy sources. Unfortunately, due to the lack of insufficient data and the reliability issues of the secondary data, several models have been tested on several data subsets in order to verify the quality.
- Noisy data have been dealt with via Binning methods.
- All respondents did not provide their ethnicity. Thus, first and second language features used to indicate to ethnicity.
- Data transformation required to import different files types of over than 150000 observation, mainly from Stata file and transform it into R and then xls file. Some problems were related to transposing.

Darfurians Displacement Analysis: Security Vs. Economy

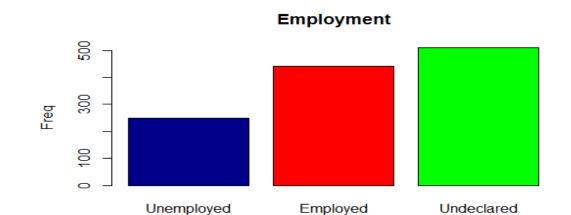
DCPSF Phase 2 - October 2013

Visualization of Key Features

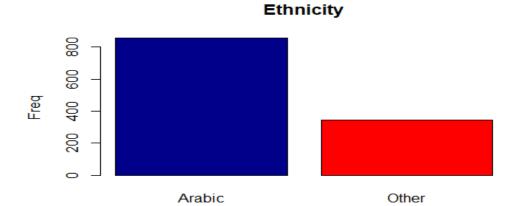
• Economic Satisfaction



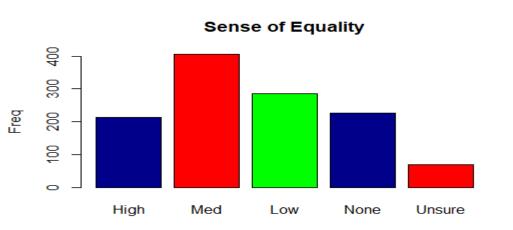
Employment



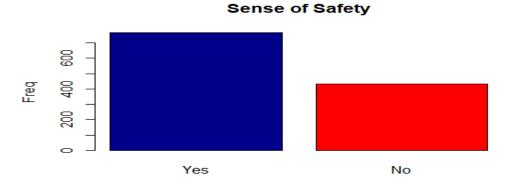
Ethnicity



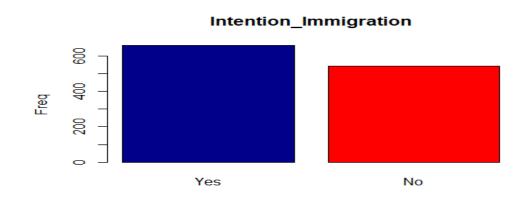
Sense of Equality



Sense of Safety

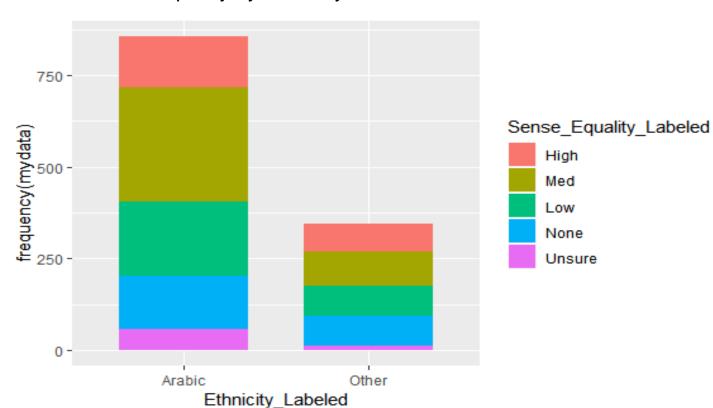


Intention to Immigrate

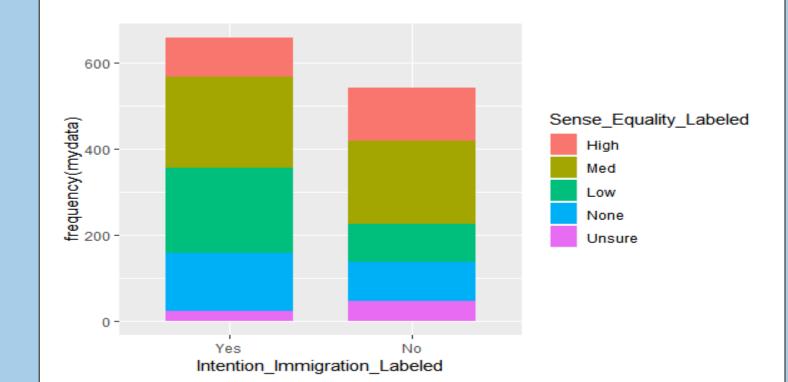


More Visualization

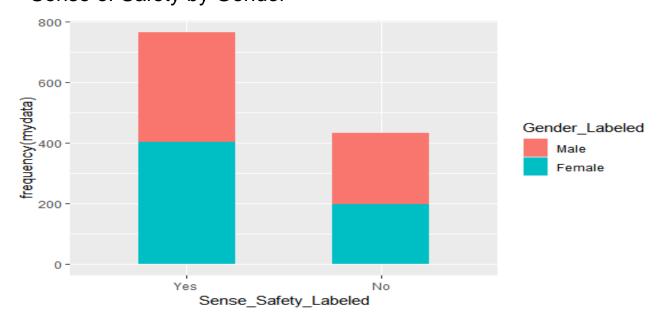
Sense of Equality by Ethnicity



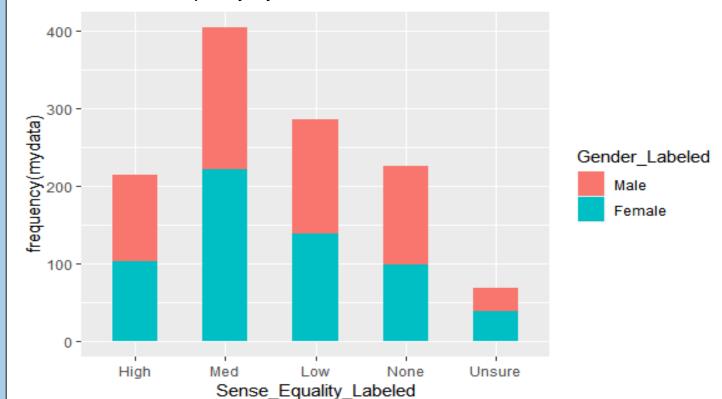
• Immigration by Sense of Equality



Sense of Safety by Gender



Sense of Equality by Gender



Pearson Correlations

Variable Correlation Clusters
Binary_Logistic_Data.xlsx using Pearson



Models Results

glm(formula = Sense_Safety_Labeled ~ Intention_Immigration_Labeled +
Region_Labeled + Urbanity_Labeled + Gender_Labeled + Eco_Satisfaction_Labeled +
Marital_Labeled + Living_Condition_Labeled + Profession_Labeled +
Ethnicity_Labeled, family = binomial, data = Binary_Logistic_Data)

```
Min 1Q Median 3Q Max
-2.0173 -0.8018 -0.4347 0.9036 2.7468
Coefficients: (1 not defined because of singularities)
                                            0.31191 -8.076 6.68e-16 ***
Intention_Immigration_LabeledNo -0.46894
Region_LabeledN.Darfur
                                            0.18863 10.672 < 2e-16 ***
                                  2.01309
Region_LabeledS.Darfur
                                           0.19634
                                 1.47319
Region_LabeledE.Darfur
                                -15.49297 362.10218
Region_LabeledW.Darfur
Urbanity_LabeledRural
Gender_LabeledFemale
Eco_Satisfaction_LabeledBad
Eco_Satisfaction_LabeledUnsure
                                             0.63640
Marital_LabeledMarried
                                  0.26843
                                            0.40128 0.669 0.50354
Marital_LabeledDivorced
Living_Condition_LabeledSimilar
                                            0.22828
 Living_Condition_LabeledWorse
                                 -0.09494
                                            0.18726 -0.507 0.61214
 Living_Condition_LabeledUnsure
                                 0.69223
                                             0.60920
Profession_LabeledEmployed
Profession_LabeledUndeclared
Ethnicity_LabeledOther
                                 0.21591
                                           0.16423 1.315 0.18863
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' '1
 (Dispersion parameter for binomial family taken to be 1)
```

Null deviance: 1570.5 on 1199 degrees of freedom Residual deviance: 1229.6 on 1183 degrees of freedom

Number of Fisher Scoring iterations: 15

```
Deviance Residuals:
           1Q Median
                           3Q
-1.8574 -0.9960 -0.6204 1.0639 2.0940
Coefficients: (1 not defined because of singularities)
                            Estimate Std. Error z value Pr(>|z|)
                           Region_LabeledN.Darfur
                           -0.002614 0.176275 -0.015 0.988169
                           -0.056704 0.184889 -0.307 0.759078
Region_LabeledS.Darfur
Region_LabeledE.Darfur
                           -0.166929 0.359929 -0.464 0.642803
Region_LabeledW.Darfur
                           -1.223163 0.306221 -3.994 6.49e-05 ***
Urbanity_LabeledRural
                            0.214799 0.136700 1.571 0.116109
Gender_LabeledFemale
                            0.574967 0.137296 4.188 2.82e-05 ***
Eco_Satisfaction_LabeledBad
                           Eco_Satisfaction_LabeledUnsure 0.339234 0.568650
                            0.888957 0.175817 5.056 4.28e-07 ***
Marital_LabeledMarried
Marital_LabeledDivorced
                            0.867420 0.362171 2.395 0.016618
Living_Condition_LabeledSimilar -0.361212
                                     0.211662 -1.707 0.087906
Living_Condition_LabeledWorse -0.273312
                                     0.165713 -1.649 0.099085
Living_Condition_LabeledUnsure -0.636241 0.612281 -1.039 0.298744
Sense_Safety_LabeledNo
                           -0.431739 0.148717 -2.903 0.003695 **
```

---Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 1652.3 on 1199 degrees of freedom Residual deviance: 1475.9 on 1183 degrees of freedom AIC: 1509.9

Number of Fisher Scoring iterations: 4

Conclusion

Profession_LabeledEmployed

Ethnicity_LabeledOther

Profession_LabeledUndeclared

- Urbanity drives less Darfurians to relocate
- Economic marginalization drives more Darfurians to relocate

0.148388 0.183387 0.809 0.418428

- Lack of safety and security drivers more Darfurians to relocate
- Surprisingly, other non-Arabic ethnicities tend less to relocate despite the rising waves of violence against them

Recommendation

Root causes of conflict along Migratory routes identified in 2012 – farmers, pastoralists, IDPs and host communities identified in 2012- needs to be addressed